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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,777	08/07/2003	Akiyoshi Mikami	50024-015	1705
7590 08/15/2007 McDERMOTT, WILL & EMERY 600 13th Street, N.W.			EXAMINER	
			THOMPSON, CAMIE S	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			1774	
			MAIL DATE	DELIVERY MODE
			08/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

, ,		Application No.	Applicant(s)			
		10/635,777	MIKAMI, AKIYOSHI			
	Office Action Summary	Examiner	Art Unit			
		Camie S. Thompson	1774			
	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
Period fo	· ·					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on Amer	ndment filed June 1, 2007.				
2a) <u></u> ☐	This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowar					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims	·				
4)⊠	Claim(s) 13 and 14 is/are pending in the applic	ation.				
	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5)	Claim(s) is/are allowed.					
	Claim(s) 13-14 is/are rejected.					
	Claim(s) is/are objected to.					
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examine	r.				
10)[The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	· -· ·	• • • • • • • • • • • • • • • • • • • •			
. 11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119	•				
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
· •	☐ All b)☐ Some * c)☐ None of:		, , , , ,			
	1. Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents	s have been received in Applicat	ion No			
	3. Copies of the certified copies of the prior	_ -	ed in this National Stage			
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* 5	See the attached detailed Office action for a list	of the certified copies not receive	∌ d.			
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	•					
Attachmen		,, — , , , , ,				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal F				

Application/Control Number: 10/635,777

Art Unit: 1774

DETAILED ACTION

- 1. Applicant's amendment and accompanying remarks filed June 1, 2007 are acknowledged.
- 2. Examiner acknowledges cancelled claims 1-12 and 15-20.
- 3. The rejection of claim 11 under 35 U.S.C. 103(a) as being unpatentable over Okajima et al., U.S. Patent Number 5, 700,591 in view of Yano et al., U.S. Patent Number 6,699,596 is overcome by applicant's amendment.

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4. Examiner regrets the delay in indication of allowable subject matter from the previous Office Action.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

6. Claims 13-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 13 is rendered indefinite because x is not defined.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/635,777 Page 3

Art Unit: 1774

8. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al., U.S. Patent Number 4,727,004.

Tanaka discloses a thin film electroluminescence device comprising a double insulated structure comprising an emitting layer made of an alkaline earth sulfide as host material, doped with 0.15 to 0.75 atm% of europium as per instant claims 13 and 14(see column 1, lines 51-68). Additionally, the reference discloses that the insulating layer can comprise aluminum nitride, lead titanate, tantalum oxide, hafnium oxide or silicon nitride (see column 2, lines 55-68). Figure 1 of the reference demonstrates an underlayer (first insulating layer) as required by the present claims. Instant claim 13 does not provide for x. An alkaline earth sulfide can include magnesium sulfide (with x=0) or magnesium calcium sulfide (with variable of x). Tanaka does not provide for the ration of Eu to Mg being not larger than 0.1 as required by the present claims. Tanaka discloses in column 3, line 68-column 4, line 2 that the device exhibits no memory effects when the Eu concentration is low. The concentration of the dopant affects the luminescence of the light emitting layer. Discovery of optimum values of a result effective variable involves only routine skill in the art in re Boesch, 617 F.2d 272, 205 USPO 215 (CCPA 1980). Therefore, it would have been obvious to one of ordinary skill in the art to have a composition ration of Eu to Mg being not larger than 0.1 in order to have a device that exhibits no memory effects.

Response to Arguments

9. Applicant's arguments with respect to claims 13-14 have been considered but are moot in view of the new ground(s) of rejection.

Application/Control Number: 10/635,777

Art Unit: 1774

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano, can be reached at (571) 272-1398. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MILTON I. CANO SUPERVISORY PATENT EXAMINER

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